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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,126	03/31/2004	Darshan B. Joshi	VRT0131US	9216
	7590 12/05/200 TEPHENSON LLP		EXAMINER	
	RY OAKS TERRACE		KAWSAR, ABDULLAH AL	
BLDG. H, SUITE 250 AUSTIN, TX 78758			ART UNIT	PAPER NUMBER
			2195	
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			12/05/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/815,126	JOSHI ET AL.				
Office Action Summary	Examiner	Art Unit				
	ABDULLAH AL KAWSAR	2195				
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 Se	eptember 2008.					
·— · · · · · · · · · · · · · · · · · ·	action is non-final.					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
- 4)⊠ Claim(s) <u>1-25 and 27-30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-25 and 27-30</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)⊠ The drawing(s) filed on <u>31 March 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	n-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	d.				
Attachment(s)	. 🗖					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary Paper No(s)/Mail Da					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
Paper No(s)/Mail Date	6)					

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DETAILED ACTION

1. Claims 1-25 and 27-30 are pending.

Continued Examination Under 37 CFR 1.114

2. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/22/2008 has been entered.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 21-25 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. As per claim 21, the claimed "computer readable-medium" is broad and can include both readable and storage medium, wherein computer-readable medium can include non-tangible medium. Applicant is suggested to amend the claim to "a computer-readable storage medium" as recited in paragraph 0089 in the specification.

Specification

5. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the

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following is required: claim 21, "a computer-readable medium" is not disclosed in the specification to support the claimed limitation.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 1, 2, 5-8, 11-12, 15-17, 20-22 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Short et al(Short) US Patent No. 6178529, in view of Chao et al.(Chao) US Patent No. 6393485.
- 8. As per claim 1, Short teaches the invention substantially as claimed including a method comprising:

determining whether a resource in a first cluster can be allocated to provide a quantity of the resource to an application (col 10, lines 62-67 through col 11, lines 1-4);

if the resource in the first cluster cannot be allocated to provide the quantity of the resource to the application, determining whether the first cluster can be reconfigured to provide the quantity of the resources to the application (col 8, lines 27-36);

if the first cluster can be reconfigured, enabling the first cluster to provide the quantity of the resource to the application by reconfiguring the first cluster (col 1, lines 31-34; col 7, lines 32-43); and

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Short does not specifically disclose if the first cluster cannot be reconfigured, restarting

the application in a second cluster having a sufficient amount of the resource to provide the

quantity of the resource to the application.

However, Chao teaches if the first cluster cannot be reconfigured, restarting the

application in a second cluster having a sufficient amount of the resource to provide the quantity

of the resource to the application (col 3, lines 23-27; col 5, lines 40-45; col 7, lines 34-43).

9. It would have been obvious to a person of ordinary skill in art at the time of invention

was made to incorporate the teaching of Chao into the method of Short to restarting the

application in a second cluster having a sufficient amount of the resource to provide the quantity

of the resource to the application. The modification would have been obvious because one of the

ordinary skills of the art would want to be able to utilize the available resource in a multi-cluster

based system between different clusters, nodes and servers to prevent system failure.

10. As per claim 2, Short teaches selecting the application to be allocated the quantity of the

resource from a plurality of applications in accordance with a business priority for the

application (col 7, lines 22-31).

11. As per claim 5, Short teaches monitoring performance of a plurality of applications

running in the first cluster (col 2, lines 1-5); and

if performance of one application of the plurality of applications fails to satisfy a criterion, requesting to allocate a second quantity of the resource for the one application to enable the performance of the one application to satisfy the criterion(col 1, lines 31-34).

- 12. As per claim 6, Short teaches the first cluster is remote from the second cluster (col 1, lines 62-65; col 2, lines 51-54).
- 13. As per claim 7, Short teaches the determining whether the resource in the first cluster can be allocated to provide the quantity of the resource to the application is performed in response to failure of the application (col 7, lines 32-35).
- 14. As per claim 8, Short teaches the determining whether the resource in the first cluster can be allocated to provide the quantity of the resource to the application is performed in response to starting the application (col 8, lines 3-6; lines 26-31).
- 15. As per claims 11, 16 and 21, they have similar limitations as claim 1 above. Therefore, they are rejected under the same rational as of claim 1 above.
- 16. As per claims 12, 17 and 22, they have similar limitations as claim 2 above. Therefore, they are rejected under the same rational as of claim 2 above.

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17. As per claims 15, 20 and 25, they have similar limitations as claim 5 above. Therefore, they are rejected under the same rational as of claim 5 above.

- 18. Claims 3, 9, 10, 13, 18 and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Short et al(Short) US Patent No. 6178529, in view of Chao et al.(Chao) US Patent No. 6393485, as applied to claims 1, 11, 16 and 21 above, and further in view of Trossman et al.(Trossman) US Patent No. 7308687.
- 19. As per claim 3, Short and Chao do not specifically disclose adding a second quantity of the resource to the first cluster.

However, Trossman teaches adding a second quantity of the resource to the first cluster (col 11, 53-57).

20. It would have been obvious to a person of ordinary skill in art at the time of invention was made to incorporate the teaching of Fong into the combined method of Chao and Short to adding a second quantity of the resource to the first cluster. The modification would have been obvious because one of the ordinary skills of the art would want to be able to add or remove resources to the cluster according to the application necessity to be able to have a stable system execution.

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21. As per claim 9, Trossman teaches the determining whether the resource in the first cluster can be allocated to provide the quantity of the resource to the application is performed in response to identifying a problem with performance of the application (col 8, lines 12-23).

- 22. As per claim 10, Trossman teaches the determining whether the resource in the first cluster can be allocated to provide the quantity of the resource to the application is performed in response to determining that the application is not in conformance with a policy (col 3, lines 35-45, lines 61-67).
- 23. As per claims 13, 18 and 23, they have similar limitations as claim 3 above. Therefore, they are rejected under the same rational as of claim 3 above.
- 24. Claims 4, 14, 19 and 24, 27-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Short et al(Short) US Patent No. 6178529, in view of Chao et al.(Chao) US Patent No. 6393485, as applied to claims 1, 11, 16 and 21 above, and further in view of Fong et al.(Fong) US Patent No. 6366945.
- 25. As per claim 4, Short and Chao do not specifically disclose partitioning the resource within the first cluster.

However, Fong teaches partitioning the resource within the first cluster (col 1, lines 6-12; lines 38-45).

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26. It would have been obvious to a person of ordinary skill in art at the time of invention was made to incorporate the teaching of Fong into the combined method of Chao and Short to partitioning the resource within the first cluster. The modification would have been obvious because one of the ordinary skills of the art would want to be able to modify the available resources to illuminate the problematic resources and isolate them from rest of the application for repair and have the system running without interruption.

- 27. As per claim 27, Fong teaches wherein the first cluster comprises a plurality of nodes, wherein at least one node among the plurality of nodes id a multiprocessor node, and the reconfiguring comprises partitioning the multiprocessor node into multiple nodes (col 1, lines 6-12; lines 14-26; col 3, lines 11-19; col 5, lines 9-21).
- 28. As per claims 14, 19 and 24, they have similar limitations as claim 4 above. Therefore, they are rejected under the same rational as of claim 4 above.
- 29. As per claims 28-30, they have similar limitations as claim 27 above. Therefore, they are rejected under the same rational as of claim 27 above.

Response to Arguments

30. Applicant's arguments with respect to claim(s) have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

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31. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ABDULLAH AL KAWSAR whose telephone number is

(571)270-3169. The examiner can normally be reached on 7:30am to 5:00pm, EST.

32. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Meng Ai T. An can be reached on 571-272-3756. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

33. Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Meng-Ai An/ Supervisory Patent Examiner, Art Unit 2195 /Abdullah-Al Kawsar/ Examiner, Art Unit 2195 Page 9